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PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ollection of information unless it displays a valid OMB control number. Application Number 10/648,945 Filing Date August 26, 2003 First Named Inventor **FORM** Guillermo C. Bazan Art Unit 1637 **Examiner Name** RILEY, JEZIA (to be used for all correspondence after initial filing) Attorney Docket Number 51871.000006.UTL Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request below): Copies of cited references 1-143, 163-167, Request for Refund **Express Abandonment Request** and 174-218. Return Receipt Postcard. CD, Number of CD(s) 2 Information Disclosure Statements SB/08 Forms (18 pgs). Landscape Table on CD Certified Copy of Priority Remarks Document(s) The Commissioner is hereby authorized to charge any fees due in connection with this submission, or credit any overpayment to Deposit Account No. 02-4553 in the name of Reply to Missing Parts/ Buchanan Ingersoll Professional Corp. Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Buchanan Ingersoll, 401 West A Street, Suite 1900, San Diego, CA 92101 Signature Davis Printed name David Maher Date Reg. No. 01-26-05 40.077 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature

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Date

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51871-000006.UTL U.S. Patent



ne Application of	)	Group Art Unit: 1637
N et al.	) )	Examiner: RILEY, JEZIA
No.: 10/648,945	) )	Customer. No. 23464
August 26, 2003	) )	
OF POLYNUCLEOTIDES USING LIGHT HARVESTING MULTI-	) ) ) )	
	N et al.  No.: 10/648,945  August 26, 2003  METHODS AND COMPOSITIONS FOR DETECTION AND ANALYSIS OF POLYNUCLEOTIDES USING	N et al.  No.: 10/648,945  August 26, 2003  METHODS AND COMPOSITIONS  FOR DETECTION AND ANALYSIS  OF POLYNUCLEOTIDES USING  LIGHT HARVESTING MULTI-

### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97-1.98

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#### Dear Sir:

This Information Disclosure Statement is being filed prior to receipt of a first Office Action on the merits with respect to the above-captioned application. Thus, it is believed that there is no fee due for filing this paper. However, if it is determined that a fee is due, the Commissioner is hereby authorized to charge the requisite fee, or any fees that may be due in connection with this and the attached papers, or with this application during its entire pendency, or to credit any overpayment, to Deposit Account No. 02-4553.

In accordance with 37 C.F.R. §1.56 and 37 C.F.R. §§1.97-1.98, this Information Disclosure Statement, including Forms PTO-SB/08A (2 pages) and PTO-SB/08B (5 pages) and cited documents, is provided herewith.

The items identified in this Information Disclosure Statement may or may not be "material" pursuant to 37 C.F.R. §1.56. The filing of this Information Disclosure Statement is not an admission by Applicants or Applicants' representatives that any of the documents, singly or in any combination, is material. Nor is it an admission that any of the items identified is

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"prior art" against the subject application. Additionally, in accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other information as defined in 37 C.F.R. §1.56(b) exists in addition to those items submitted herewith.

Applicant respectfully requests that the Examiner review the foregoing documents and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,

BUCHANAN INGERSOLL P.C.

Date: January 26, 2005

David W. Maher, Ph.D

Reg. No. 40,077

One Oxford Centre 301 Grant Street Pittsburgh, PA 15219-1410 (O) (619) 578.5008 (F) (619) 578.5940

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

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Complete if Known					
Application Number	10/648,945				
Filing Date	August 26, 2003				
First Named Inventor	Guillermo C. Bazan	_			
Art Unit	1637				
Examiner Name	Riley, Jezia				
Attorney Docket Number	51871-000006				

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
_	144	<sup>US-</sup> 4,948,843 A	08-14-1990	Roberts et al.	
	145		08-21-1990	Roberts et al.	
	146	<sup>US-</sup> 5,408,109 A	04-18-1995	Heeger et al.	
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	159	<sup>US-</sup> 2003/0054413 A1	03-20-2003	Kumaraswamy	
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	162	<sup>US-</sup> 60/226,902	08-23-2000	Whitten	

		FORE	<b>IGN PATENT DOCU</b>	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)		Or Relevant Figures Appear	T <sup>6</sup>	
	163	WO 99/35288 A1	07-15-1999	Minnesota Mining and Manufacturing Company		
	164	WO 00/14278 A1	03-16-2000	The Secretary of State for Defence		
	165	WO 00/66790 A1	11-09-2000	The Regents of the University of California		
	166	WO 02/081735 A2	10-17-2002	Infectio Diagnostic (I.D.I.) Inc.		
	167	WO 2004/001379 A2	12-31-2003	The Regents of the University of California		

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Examiner	Date	
Signature	Considered	

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000	Situle for form 1445/1 TO	Application Number	10/648,945	_		
I N	IFORMATION DISCLOSURE	Filing Date	August 26, 2003	_		
		First Named Inventor	Guillermo C. Bazan			
S	TATEMENT BY APPLICANT	Art Unit	1637			
(Use as many sheets as necessary)		Examiner Name	Riley, Jezia			
Sheet	2 of 7	Attorney Docket Number	51871-000006	J		

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	168	<sup>US-</sup> 60/230,186	09-01-2000	Phillips	
	169	<sup>US-</sup> 60/237,000	09-29-2000	Bruchez	
	170	<sup>US-</sup> 60/240,216	10-13-2000	Bruchez	
	171	<sup>US-</sup> 60/276,090	03-16-2001	Jones	
	172	<sup>US-</sup> 60/314,094	08-23-2001	Burdick	
	173	<sup>US-</sup> 60/314,101	08-23-2001	Whitten	
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		FORE	IGN PATENT DOCU	MENTS		
Examiner Cite		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			Or Relevant Figures Appear	T⁵
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Examiner   Date	
Signature Considered	

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- Cabanda (01 1011) 1443) 170		Application Number	10/648,945				
<b>INFORMATION DISCLOSURE</b>			CLOSURE	Filing Date	August 26, 2003		
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Guillermo C. Bazan		
				Art Unit	1637		
(Use as many sheets as necessary)		Examiner Name	Riley, Jezia				
Sheet	3	of	7	Attorney Docket Number	51871-000006		

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	174	Wang et al., "Size-Specific Interactions Between Single- and Double-Stranded Oligonucleotides and Cationic Water-Soluble Oligofluorenes", Adv. Funct. Mater., June 2003, 13(6), 463-467.		
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Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Cobolino	10 101 101111 1775/1 10			Application Number	10/648,945	
INF	ORMATION	DIS	CLOSURE	Filing Date	August 26, 2003	
STA	TEMENT B	BY A	PPLICANT	First Named Inventor	Guillermo C. Bazan	
	/lico as many sha	ote se n	acassan/l	Art Unit	1637	
(Use as many sheets as necessary)				Examiner Name	Riley, Jezia	
Sheet	4	of	7	Attorney Docket Number	51871-000006	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	184	Chen et al., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation", J. Am. Chem. Soc., 2000, 122, 9302-9303.	
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Examiner	Date	•
Signature	Considered	

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Substitu	ite for form 1449/PTO	•		Complete if Known		
CODOM	10 10 10 11 1440/1 10			Application Number	10/648,945	
INF	ORMATION	I DIS	CLOSURE	Filing Date	August 26, 2003	
STA	ATEMENT E	BY A	PPLICANT	First Named Inventor	Guillermo C. Bazan	
	(llee on many ch	anta an m	ooossand	Art Unit	1637	
(Use as many sheets as necessary)			lecessary)	Examiner Name	Riley, Jezia	
Sheet	5	of	7	Attorney Docket Number	51871-000006	

		NON PATENT LITERATURE DOCUMENTS	
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	194	Liu et al., "Methods for strand-specific DNA detection with cationic conjugation polymers suitable for incorporation into DNA chips and microarrays", PNAS Early Edition, December 2004, p. 1-5	
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	199	Service, "DNA Analysis: Microchip Arrays Put DNA on the Spot", The American Association for the Advancement of Science, October 1998, 282(5388), 396-399.	
	200	Southern, "DNA chips: analysing sequence by hybridization to oligonucleotides on a large scale", TIG, March 1996, 12(3), 110-115.	
	201	Epstein et al., "Microarray technology - enhanced versatility, persistent challenge", Current Opinion in Biotechnology, 2000, 11, 36-41.	
	202	Heeger et al., "Making Sense of polymer-based biosensors", PNAS, October 1999, 96(22), 12219-12221.	
	203	Patel et al., "Energy transfer analysis of Fos-Jun dimerization and DNA binding", Proc. Natl. Sci. USA, July 2994, 91, 7360-7364.	

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Oubstitu	NE 10/ 10/11/ 1445// 10			Application Number	10/648,945	
INF	ORMATION	DIS	CLOSURE	Filing Date	August 26, 2003	
STA	ATEMENT E	BY A	PPLICANT	First Named Inventor	Guillermo C. Bazan	
	(Use as many the			Art Unit	1637	
(Use as many sheets as necessary)				Examiner Name	Riley, Jezia	
Sheet	6	of	7	Attorney Docket Number	51871-000006	

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	204	Lohse et al., "Fluorescein-Conjugated Lysine Monomers for Solid Phase Synthesis of Fluorescents Peptides and PNA Oligomers", Bioconjugate Chem., 1997, 8, 503-509.	
	205	Smith et al., "The synthesis of oligonucleotides containing an aliphatic amino group at the 5' terminus: synthesis of fluorescent DNA primers for use in DNA sequence analysis", Nucleic Acids Research, 1985, 13(7) 2399-2412.	
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Examiner	Date	
Signature	 Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

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Substitu	ute for form 1449/PTO			Complete if Known		
	10 10 10 10 10 10 10 10 10 10 10 10 10 1			Application Number	10/648,945	
INF	ORMATION	DIS	CLOSURE	Filing Date	August 26, 2003	
STA	ATEMENT E	BY A	PPLICANT	First Named Inventor	Guillermo C. Bzan	
	(Use as many she	ete se n	pecessary)	Art Unit	1637	
(SSC 45 Many Sheets 45 Messachy)				Examiner Name	Riley Jezia	
Sheet	7	of	7	Attorney Docket Number	51871-000006	

F	0:4-	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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Sheet 1

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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	Col	npiete if Known	)
	Application Number	10/648,945	
	Filing Date	August 26, 2003	
	First Named Inventor	Guillermo C. Bazan	
	Art Unit	1637	
	Examiner Name	Riley, Jezia	
_	Attorney Docket Number	51871-000006	

		NON PATENT LITERATURE DOCUMENTS	
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T²
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	NON PATENT LITERATURE DOCUMENTS				
Examiner	Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal,				
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Filing Date	August 26, 2003			
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Art Unit	1637			
Examiner Name	Riley, Jezia			
Attorney Docket Number	51871-000006			

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Application Number | 10/648,945

Filing Date | August 26, 2003

First Named Inventor | Guillermo C. Bazan

Art Unit | 1637

Examiner Name | Riley, Jezia

Sheet 4

of 111

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Sheet 5

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Initials*	No.1	serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	j '			
naucio	57	JENKINS, Y. and BARTON, J.K. A Sequence-Specific Molecular Light Switch: Tethering of an Oligonucleotide to a				
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Examiner's	Date	
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		NON PATENT LITERATURE DOCUMENTS	
Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal,	T <sup>2</sup>
Initials*	No. <sup>1</sup>	serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	L.,
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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Col	mplete if Known	
Application Number	10/648,945	
Filing Date	August 26, 2003	
First Named Inventor	Guillermo C. Bazan	
Art Unit	1637	
Examiner Name	Riley, Jezia	
Attorney Docket Number	51871-000006	

		NON PATENT LITERATURE DOCUMENTS	
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	Application Number	10/648,945
INFORMATION DISCLOSURE	Filing Date	August 26, 2003
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	First Named Inventor	Guillermo C. Bazan
	Art Unit	1637
(Use as many sheets as necessary)	Examiner Name	Riley, Jezia
Sheet 8 of 11	Attorney Docket Number	51871-000006

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Riley, Jezia

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STATEMENT BY APPLICANT (Use as many sheets as necessary)	First Named Inve
	Art Unit
(Use as many sheets as necessary)	Examiner Name

Sheet 10 of 11 Attorney Docket Number

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Attorney Docket Number 51871-00006

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